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[001]ACTIVATION ASSEMBLY IN A TRANSMISSION FOR
TWO PRESSURE-ACTIVATED SHIFT ELEMENTS

[002] This application is a national stage completion of PCT/EP20042004/011030 filed October 2, 2004 which claims priority from German Patent Application Serial No. 103 50 759.0 filed October 30, 2003.

[003] FILED OF THE INVENTION

[004] The invention involves an activation assembly in a transmission for two pressure-activated shifting elements.

[005] BACKGROUND OF THE INVENTION

[006] A step automatic transmission is known from US 2003/0087720 A1 with a planetary set and pressure-activated transmission shifting elements. The transmission shifting elements are constructed as two switchable couplings which use a common outer disc carrier to accept the outer discs of the couplings. The common outer disc carrier shows a pot-shaped, half cross-sectional geometry whose symmetry axis coincides with the long axis of the transmission input shaft. As a result, the outer disc carrier forms a coupling area within which the disc packet and the servo device of both couplings are positioned.

[007] The two disc packets of the mentioned couplings, which will be examined more closely here, are positioned immediately next to each other in an axial and radial direction. In addition, the servo devices act in such a way on both coupling packets, that the closing direction of both couplings is equal and points away from the pot base of the outer disc carrier. For that reason, the pressure areas of both servo devices are axially directly next to each other.

[008] The piston of the servo device which activates the second disc packet located away from the pot base is axially located between the pistons of the servo device to activate the first disc coupling near the pot base, as well as the pot base of the outer disc carrier. In addition, the piston to activate the first disc packet near the pot base is positioned between the piston for the second disc packet away from the pot base and the disc packet near the pot base.